

METHOD AND SYSTEM OF REVERSIBLY MARKING
A TEXT DOCUMENT
WITH A PATTERN OF EXTRA BLANKS
FOR AUTHENTICATION

5 **Abstract**

10 A method of marking an original text document in which
existing inter-word blank characters are altered is disclosed.
A reversible transform is first applied so that inter-word
intervals become exclusively comprised of odd numbers of blank
characters. Transformed original text is then split in two
subsets and an authentication pattern is merged into first
subset by adding inter-word blank characters. A blurring
pattern is computed which further modify the number of blank
characters so as to hide the authentication pattern. Second
15 subset is blurred too before subsets are recombined to obtain
a marked text susceptible of authentication.

20 A method of authenticating a text document marked accord-
ing to the here above method is also disclosed.

25 The system and the methods of the invention permit that a
text document be authenticable while authentication pattern is
imbedded, and deeply hidden, into the text document itself.
Also, the exact original format, including the numbers of
inter-word blanks, can be restored by the recipient.

Figure 3.